

WHAT IS CLAIMED IS:

1. An optical disc comprising:  
a plurality of substrate layers each having a plurality of guide grooves;  
5 a plurality of data recording layers laminated on the plurality of substrate layers, each of the plurality of data recording layers having over the guide grooves a recording film for recording data; and  
an intermediate layer disposed between the plurality of data recording layers;  
10 the guide groove depth being different in each of the plurality of substrate layers, and  
the guide grooves of the data recording layers laminated according to the guide grooves of the substrate layer having the same pitch in each data recording layer.  
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2. An optical disc as described in claim 1, wherein the plurality of data recording layers are two layers.
3. An optical disc as described in claim 1, wherein a groove width of  
20 each of the plurality of guide grooves on the substrate layer is 0.3  $\mu\text{m}$  or less.
4. An optical disc as described in claim 1, wherein the guide grooves of the recording film in the data recording layer formed by lamination according to the guide grooves of the substrate layer have the same groove depth.  
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5. An optical disc as described in claim 1, where the optical disc is irradiated from one side by light for reproducing data, and the quality of signals reproduced from each of the plurality of data recording layers is the same.
- 5 6. An optical disc as described in claim 5, wherein the reproduced signal quality is expressed as jitter.
7. An optical disc as described in claim 5, wherein the reproduced signal quality is expressed as the carrier noise ratio of the reproduced signal.
- 10 8. A method for manufacturing an optical disc having a plurality of data recording layers each including a recording film for recording data, comprising:
- supplying a plurality of substrates;
- 15 coating each of the plurality of substrates with a photosensitive material;
- recording a pattern containing guide grooves in each of the plurality of substrates;
- developing each of the plurality of substrates to produce a plurality
- 20 of master plates having the recorded pattern;
- duplicating a plurality of stampers based on each of the plurality of master plates, and producing a plurality of substrate layers based on the stampers;
- laminating a data recording layer having a recording film on each
- 25 of the plurality of substrate layers; and

bonding the plurality of data recording layers together by way of an intervening intermediate layer;

the coating including changing the thickness of the photosensitive material on each of the plurality of substrates, and

5 the recording including changing beam density to record guide grooves so that the depth of each recorded guide groove is different in each of the plurality of substrates.

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